

WHAT IS CLAIMED IS:

5

1. A molding machine managing system,  
comprising:

a portable information terminal having a display  
part where received information is displayed; and  
10 a managing apparatus for managing a molding  
machine,

wherein the managing apparatus includes a radio  
machine, and

information is exchanged between the portable  
15 information terminal and the managing apparatus by the  
radio machine.

20

2. The molding machine managing system as  
claimed in claim 1,

wherein information about a history of an  
operation abnormality of the molding machine is  
25 transferred from the molding machine to the managing  
apparatus and subsequently transferred to the portable  
information terminal via the radio machine, so as to be  
displayed at the display part of the portable information  
terminal.

30

3. The molding machine managing system as claimed in claim 1,

wherein information about an instruction or a change of an operation of the molding machine is transferred from the managing apparatus to the portable information terminal via the radio machine, so as to be displayed at the display part of the portable information terminal.

10

4. The molding machine managing system as claimed in claim 1,

wherein based on input of information of molding operations by the molding machine to the portable information terminal, the information is transferred to the managing apparatus via the radio machine and subsequently transferred to the molding machine.

20

5. The molding machine managing system as claimed in claim 4,

wherein the information of molding operations is information with respect to a mold provided at the molding machine,

a relation between the mold and a molding condition is registered, and

based on input of the information with respect to the mold to the portable information terminal, the information is transferred to the managing apparatus via

30

the radio machine, so that the managing apparatus uploads a molding condition necessary for the molding machine.

5

6. The molding machine managing system as claimed in claim 1,

10        wherein based on input to the portable information terminal of information with respect to reasons for stopping of the molding machine that cannot be determined by the managing apparatus, the information is transferred to the managing apparatus via the radio machine so as to be registered at the managing apparatus.

15

7. The molding machine managing system as claimed in claim 1,

20        wherein the molding machine is connected to the portable information terminal by one of radio and wire, and

25        a setting condition of the molding machine is changed by the portable information terminal.

30        8. A molding machine managing apparatus for managing a molding machine, comprising a radio machine, wherein the molding machine managing apparatus exchanges information with a portable information terminal

by the radio machine.

5

9. The molding machine managing apparatus for managing a molding machine as claimed in claim 8, wherein the molding machine managing apparatus receives information about a history of an operation abnormality of the molding machine from the molding machine, and subsequently sends the information to the portable information terminal.

10

15

10. The molding machine managing apparatus for managing a molding machine as claimed in claim 8, wherein the molding machine managing apparatus transfers information about an instruction or a change of an operation of the molding machine to the portable information terminal.

20

25

11. The molding machine managing apparatus for managing a molding machine as claimed in claim 8, wherein the molding machine managing apparatus receives information of molding operations by the molding machine from the portable information terminal, and subsequently transfers the information to the molding machine.

30

12. The molding machine managing apparatus for  
managing a molding machine as claimed in claim 11,  
wherein a relation between a mold provided at  
the molding machine and a molding condition is registered,  
5 and

the molding machine managing apparatus receives  
information with respect to the mold, and subsequently  
uploads a molding condition necessary for the molding  
machine.

10

13. The molding machine managing apparatus for  
15 managing a molding machine as claimed in claim 8,  
wherein the molding machine managing apparatus  
receives from the portable information terminal  
information with respect to reason for stopping of the  
molding machine that cannot be determined by the managing  
20 apparatus so that the information is registered at the  
molding machine managing apparatus.

25

14. A potable information terminal, comprising a  
display part where received information is displayed,  
wherein the potable information terminal  
exchanges information with a molding machine managing  
30 apparatus for managing a molding machine.

15. The potable information terminal as claimed  
in claim 14,

wherein the portable information terminal  
receives information about a history of an operation  
5 abnormality of the molding machine from the molding  
machine managing apparatus so that the information is  
displayed at the display part.

10

16. The potable information terminal as claimed  
in claim 14,

wherein the portable information terminal  
15 receives information about an instruction or a change of  
an operation of the molding machine from the molding  
machine managing apparatus so that the information is  
displayed at the display part.

20

17. The potable information terminal as claimed  
in claim 14,

25 wherein based on input of information of molding  
operations by the molding machine to the portable  
information terminal, the information is transferred to  
the molding machine via the molding machine managing  
apparatus.

30

18. The potable information terminal as claimed  
in claim 14,

wherein based on input of information to the  
portable information terminal with respect to reasons for  
5 stopping of the molding machine that cannot be determined  
by the managing apparatus, the information is transferred  
to and registered at the molding machine managing  
apparatus.

10

19. A recording medium where a program is  
installed, the program for causing a molding machine  
15 managing apparatus for managing a molding machine to  
perform steps, the managing apparatus having a radio  
machine, the steps comprising:

a) receiving information about a history of an  
operation abnormality of the molding machine from the  
20 molding machine; and

b) transferring the information to a portable  
information terminal.

25

20. The recording medium where the program is  
installed as claimed in claim 19, the program further  
comprising the step of:

30 c) transferring information about an instruction  
or a change of an operation of the molding machine to the  
portable information terminal.

21. The recording medium where the program is installed as claimed in claim 19, the program further comprising the steps of:

d) receiving information of molding operations  
5 by the molding machine from the portable information terminal; and

e) transferring the information of molding operations by the molding machine to the molding machine.

10

22. The recording medium where the program is installed as claimed in claim 21,

15 wherein a relation between the mold and a molding condition is registered at the program, the program further comprises the step of:

f) based on receiving the information with respect to the mold from the portable information terminal,  
20 uploading a molding condition necessary for the molding machine.

25

23. The recording medium where the program is installed as claimed in claim 19, the program further comprising the steps of:

g) receiving information with respect to reasons  
30 for stopping of the molding machine that cannot be determined by the managing apparatus from the portable information terminal; and

h) registering the information.



24. A recording medium where a program is installed, the program for causing a portable information terminal having a display part where received information is displayed to perform steps, the portable information  
5 terminal being used for exchanging information with a managing apparatus for managing the molding machine, the steps comprising:

- a) receiving information about a history of an operation abnormality of the molding machine from the  
10 molding machine; and
- b) displaying the information at the display part.

15

25. The recording medium where the program is installed as claimed in claim 24, the program further comprising the step of:

- 20 c) receiving information about an instruction or a change of an operation of the molding machine from the managing apparatus; and
- d) displaying the information at the display part.

25

26. The recording medium where the program is  
30 installed as claimed in claim 24, the program further comprising the steps of:

- c) based on input of information with respect to reasons for stopping of the molding machine that cannot be

determined by the managing apparatus, sending the information to the managing apparatus.

5

27. The recording medium where the program is installed as claimed in claim 24, the program further comprising the step of:

10           d) changing a setting condition of the molding machine, which is connected to the portable information terminal by radio or wire.

15

20

25

30